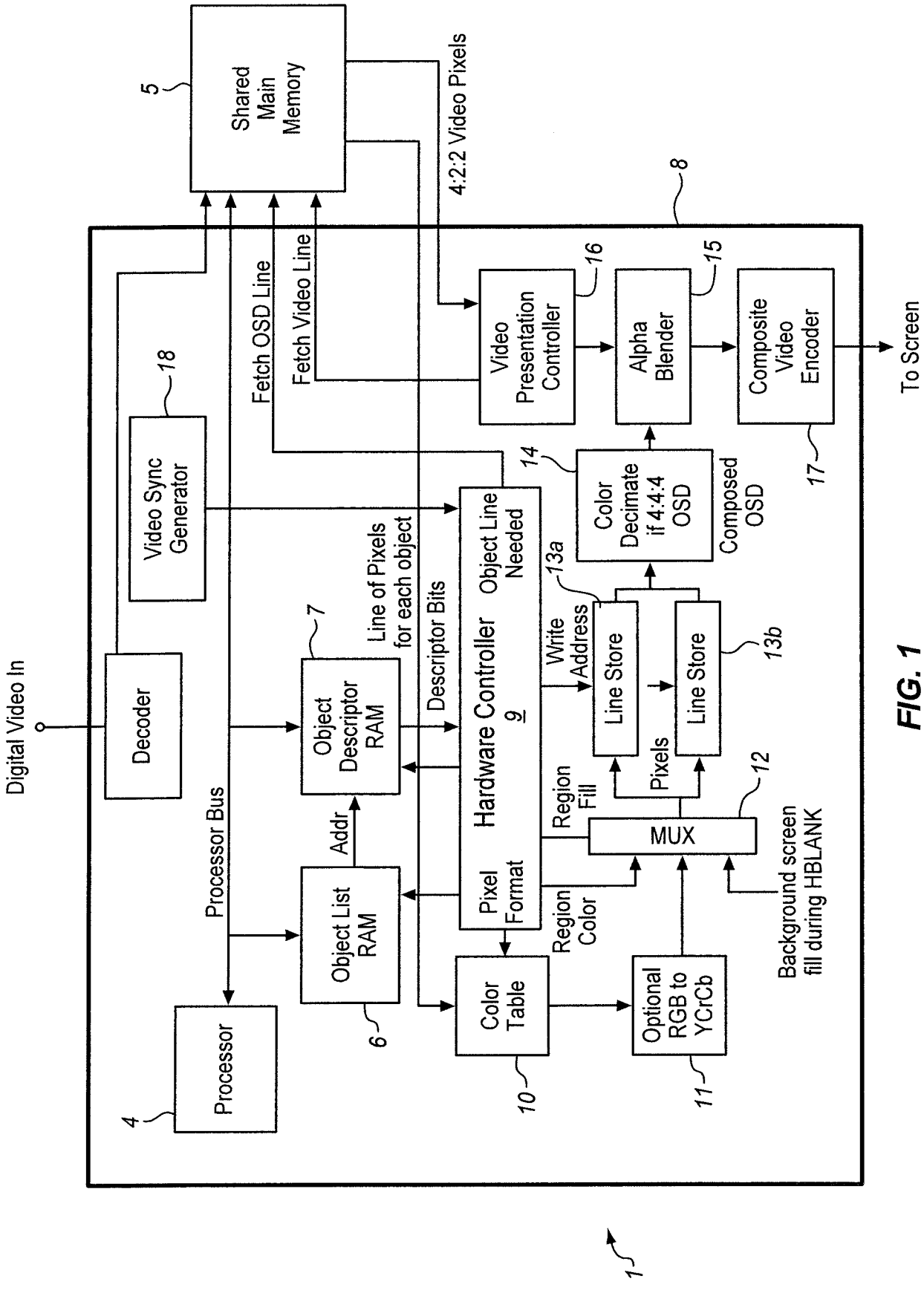
Shared Main Memory
5
4:2:2 Video Pixels
8
Fetch OSD Line
Fetch Video Line
Video Presentation Controller
16
Alpha Blender
15
Composite Video Encoder
To Screen
17
18
Video Sync Generator
14
Color Decimate if 4:4:4 OSD
Composed OSD
Digital Video In
Decoder
7
Object Descriptor RAM
Line of Pixels for each object
Descriptor Bits
Hardware Controller 9
Object Line Needed
13a
Write Address
Line Store
Line Store
13b
Processor Bus
Addr
Region Fill
Pixels
12
MUX
Object List RAM
Pixel Format
Region Color
Background screen fill during HBLANK
Color Table
Optional RGB to YCrCb
Processor
4
6
10
11
1

FIG. 1